AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (currently amended): A cosmetic polymer composition comprising a straight-chain

block copolymer having a unit derived from a compound having an ethylenic unsaturated bond,

having a number-average molecular weight of 1.0×10^3 to 1.0×10^6 , and having two or more glass

transition points or melting points,

wherein the block copolymer comprises:

at least one block composed of a unit having a hydrophilic group which is at least any

one selected from groups consisting of an anionic group consisting of carboxylic acid group,

sulfonic acid group, phosphonic acid group and salts of these groups; a cationic group consisting

of amino group (including quaternary ammonium salt group), pyridyl group and salts of these

groups; a nonionic group consisting of hydroxyl group, alkoxy group, epoxy group and cyano

group; an amphoteric ionic group consisting of carboxybetaine group; and a semipolar group

consisting of amine oxide group; and

at least one block formed by hydrolysis, quaternization or amine-oxide-forming treatment

after polymerization.

Claims 2-3 (canceled).

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4. (previously presented): The cosmetic polymer composition of claim 1, wherein the block copolymer comprises at least one of units represented by formulae (1) to (5) below:

$$\frac{-\left(CH_{2}-\stackrel{R}{C}^{1}\right)}{\left(\stackrel{1}{X}^{1}\right)_{m}} R^{2}-\stackrel{I}{\stackrel{I}{N}^{+}} O^{-} \tag{3}$$

wherein R^1 represents a hydrogen atom or a methyl group; R^2 and R^6 respectively represent a C_{1-4} straight-chain or branched-chain alkylene group; R^3 , R^4 and R^5 respectively represent a hydrogen atom, C_{1-24} alkyl group, C_{6-24} aryl group, or any combination thereof such

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as C₇₋₂₄ arylalkyl group or alkylaryl group; X¹ represents -COO-, -CONH-, -O- or NH; A⁻ represents an anion; M represents a hydrogen atom, an alkali metal ion or an ammonium ion; m is 0 or 1; and n is any integer from 1 to 50.

Claims 5-6. (canceled).

- 7. (original): The cosmetic polymer composition of claim 1, wherein the block copolymer has a glass transition point or a melting point nearly equal to a glass transition point or a melting point of a homopolymer composed of the monomer which make up at least one block of the block copolymer.
- 8. (original): The cosmetic polymer composition of claim 1, wherein the block copolymer has a ratio (Mw/Mn), which is a ratio of weight-average molecular weight (Mw) to number-average molecular weight (Mn), of 2.5 or less.
- 9. (original): The cosmetic polymer composition of claim 1, wherein the block copolymer is dispersible or soluble in water and/or alcohol.
- 10. (original): The cosmetic polymer composition of claim 1, wherein the block copolymer is produced by controlled radical polymerization using an organic halide as an

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initiator, and using, as a catalyst, at least a metal complex having a metal selected from Group

VIII, Group IX, Group X and Group XI elements in the periodic table as a central metal.

11. (original): The cosmetic polymer composition of claim 1, wherein the block

copolymer is capable of forming a film having a Young's modulus (measured according to JIS

K7161 under a tensile speed of 20 mm/min) of 50 MPa or larger and a fracture-point elongation

of 100% or larger, and dispersible into water and/or alcohol.

12. (original): A hair cosmetic polymer composition comprising a copolymer capable of

forming a film having a Young's modulus (measured according to JIS K7161 under a tensile

speed of 20 mm/min) of 50 MPa or larger and a fracture-point elongation of 100% or larger, and

dispersible into water and/or alcohol.

13. (original): The cosmetic polymer composition of claim 1, which is a hair cosmetic

polymer composition, comprising, in addition to the copolymer (a), an anionic polymer (b1) in a

ratio by weight ((a)/(b1)) of 1/10 to 10/1.

14. (original): The cosmetic polymer composition of claim 13, wherein the anionic

polymer (b1) is a polymer having an anionic group selected from carboxyl group, sulfonic acid

group, phosphonic acid group and salts of these groups.

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15. (original): The cosmetic polymer composition of claim 1, which is a hair cosmetic polymer composition, comprising, in addition to the copolymer (a), a cationic polymer (b2) in a ratio by weight ((a)/(b2)) of 1/10 to 10/1.

16. (original): The cosmetic polymer composition of claim 15, wherein the cationic polymer (b2) is at least any one cationic polymer selected from ① to ④ below:

① copolymer of which constituents are N-vinylpyrrolidone and/or N-vinylcaprolactam and a cationic-group-containing monomer;

- 2 polymer or copolymer of dimethyl diallyl ammonium;
- 3 polymer or copolymer of acrylic ester or methacrylic ester quaternary ammonium salt; and
 - 4 quaternary ammonium salt of cellulose-base or chitosan-base polymer.
- 17. (original): The cosmetic polymer composition of claim 1, which is a hair cosmetic polymer composition, comprising, in addition to the copolymer (a), a nonionic polymer (b3) in a ratio by weight ((a)/(b3)) of 1/10 to 10/1.
- 18. (original): The cosmetic polymer composition of claim 17, wherein the nonionic polymer (b3) is a polymer containing, as a constituent, an unsaturated monomer having at least one functional group selected from pyrrolidone group, amido group (containing N-alkyl amido), polyether group, formamide group and acetamide group.

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19. (original): The cosmetic polymer composition of claim 1, which is a hair cosmetic polymer composition, comprising, in addition to the copolymer (a), an amphoteric polymer (b4) in a ratio by weight ((a)/(b4)) of 1/10 to 10/1.

- 20. (previously presented): The cosmetic polymer composition of claim 19, wherein the amphoteric polymer (b4) is a polymer containing, as a constituent thereof, an unsaturated monomer having at least one betaine-structured group such as carboxybetaine group, sulfobetaine group, phosphobetaine group and so forth.
- 21. (original): The cosmetic polymer composition of claim 1, which is a hair cosmetic polymer composition, comprising, in addition to the copolymer (a), an amine-oxide-group-containing polymer (b5) in a ratio by weight ((a)/(b5)) of 1/10 to 10/1.
- 22. (previously presented): The cosmetic polymer composition of claim 21, wherein the amine-oxide-group-containing polymer comprises a unit derived from amine-oxide-group-containing unsaturated monomer and a unit derived from ethylenic unsaturated carboxylic acid ester, and the amine-oxide-group-containing unsaturated monomer is a compound represented by any one of formulae (b5-1) to (b5-4) below:

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$$H_{2}C = C - (-X^{b})_{m_{b}} R_{b3}^{b2}$$
 (b5-1)

$$H_2C = C - (X^b)_{m_b} - (b5-2)$$

$$H_{2}C = C - (X^{b})_{m_{b}} N - (B^{b5})_{p_{b}}$$

$$(b5-3)$$

$$\begin{array}{c|c}
R^{b7} \\
C \\
R^{b8}
\end{array}$$

$$\begin{array}{c}
R^{b6} \\
N^{+} \\
C \\
R^{b10}
\end{array}$$
(b5-4)

wherein R^{b1} represents a hydrogen atom or a methyl group, R^{b2} and R^{b3} represent a C_{1-24} alkyl group or aryl group or a C_{7-24} aralkyl group, which may be same or different; R^{b4} and R^{b5} represent a C_{1-24} alkyl group, a C_{6-24} aryl group or aralkyl group; X^b represents a divalent linking group; m_b is an integer of 0 or 1; n_b is an integer from 0 to 4; p_b is an integer from 0 to 3; and q and r represent an integer from 1 to 10, which may be same or different; Y^b represents at least one divalent linking group selected from the group consisting of $-C(R^{b11})(R^{b12})$ -, $-N(R^{b13})$ -, -S- and -O-; at least one of R^{b6} to R^{b10} , R^{b11} , R^{b12} and R^{b13} represents a double-bond-containing

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groups represented by $CH_2=C(R^{b1})-(X^b)_{mb}$, and other R^{b6} to R^{b10} , R^{b11} , R^{b12} and R^{b13} respectively represent a hydrogen atom, a C₁₋₂₄ alkyl group, or a C₆₋₂₄ aryl group or aralkyl group.

- 23. (previously presented): The cosmetic polymer composition of claim 1, which is a hair cosmetic polymer composition, comprising, in addition to the copolymer (a), a silicone derivative (b6).
- 24. (original): The cosmetic polymer of claim 23, wherein an amount of the copolymer (a) is within a range from 0.01 to 20% by weight of the total composition, and an amount of the silicone derivative (b6) is within a range from 0.01 to 50% by weight of the total composition.
 - 25. (original): A cosmetic comprising a composition as set forth in claim 1.
 - 26. (previously presented): The cosmetic of claim 25 for use on hair, skin or nail.
- 27. (previously presented): The cosmetic polymer composition of claim 1, wherein the block copolymer comprises at least one block composed of a unit derived from an ethylenic unsaturated carboxylic acid and at least one block composed of a unit derived from an ethylenic unsaturated carboxylate ester.

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28. (previously presented): The cosmetic polymer composition of claim 27, wherein the

ratio of the block composed of the unit derived from ethylenic unsaturated carboxylic acid is 20

to 50 % by weight, and the ratio of the block composed of the unit derived from ethylenic

unsaturated carboxylate ester is 80 to 50 % by weight.

29. (previously presented): The cosmetic polymer composition of claim 27, wherein the

ethylenic unsaturated carboxylic acid is acrylic acid and the ethylenic unsaturated carboxylate

ester is 2-ethylhexylacrylate.

30. (previously presented): The cosmetic polymer composition of claim 1, wherein the

block copolymer comprises a block composed of a unit derived from acrylic acid and a block

composed of a unit derived from 2-ethylhexylacrylate, and the ratio of the acrylic acid block is

20 to 50 % by weight and the ratio of the 2-ethylxexylacrylate block is 80 to 50 % by weight.

31. (previously presented): The cosmetic polymer composition of claim 1, wherein the

block copolymer comprises at least one block having a carboxylate salt, sulfonate salt or

phosphonate salt.

32. (previously presented): The cosmetic polymer composition of claim 30, wherein the

acrylic acid block is at least partially neutralized.

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33. (previously presented): The cosmetic polymer composition of claim 30, wherein the

block copolymer is dispersible or soluble in water and/or alcohol.

34. (previously presented): The cosmetic polymer composition of claim 1, wherein the

block copolymer is a di-block, tri-block or multi-block copolymer.

35. (previously presented): The cosmetic polymer composition of claim 1, wherein the

block copolymer is a tri-block or multi-block copolymer.

36. (previously presented): The cosmetic polymer composition of claim 1, wherein the

block copolymer comprises a hard block A having a high glass transition point (Tg) of 25 °C or

higher and a soft block B having a low Tg of 25 °C or lower, and is an A-B type di-block, A-B-A

type tri-block or (A-B)_n type multi-block copolymer.

37. (previously presented): The cosmetic polymer composition of claim 36, wherein the

block copolymer is an A-B-A type tri-block or (A-B)_n type multi-block copolymer.

38. (previously presented): The cosmetic polymer composition of claim 1, wherein the

block copolymer is produced by controlled radical polymerization using a halogenated sulfonyl

compound as an initiator, and using, as a catalyst, at least a metal complex having a metal

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selected from Group VIII, Group IX, Group X and Group XI elements in the periodic table as a central metal.